## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-17. (Cancelled).
- 18. (Currently Amended) Magnetic A magnetic device comprising a spin valve, said spin valve (110) comprising a plurality of layers (111, 112,113, 114,115, 116,117) arranged in a stack which in turn comprises at least one free magnetic layer (111) able to be associated to a temporary magnetisation (MT), a spacer layer (113; 133) and a permanent magnetic layer (112) associated to a permanent magnetisation (MP),

wherein said spacer element (133) is obtained according to a method of manufacturing a magnetoresistive element (10; 20) comprising regions having metallic conduction (13; 23) and regions having semi-conductive conduction (11; 31) wherein said method comprises the following operations:

- forming metallic nanoparticles (37) to obtain said regions with metallic conduction (13; 23);
  - providing a semiconductor substrate (31);
- chemically etching the semiconductor substrate to form pores in said semiconductor substrate; and
- applying said metallic nanoparticles (37) to said semiconductor substrate having pores in order (31) to obtain a disordered mesoscopic structure.
- 19. (Currently Amended) Device-A device as claimed in claim 18, wherein said spacer element (133) comprises a matrix (135) and nanoparticles (134).

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- 20. (Currently Amended) Device A device as claimed in claim 19, wherein said matrix (135) is a matrix of dielectric material.
- 21. (Currently Amended) A device as claimed in claim 1819, wherein said matrix (135) comprises a porous dielectric material, in particular comprising porous alumina or porous silicon, and the nanoparticles (134) are contained in pores (136) of said porous dielectric material.
- 22. (Currently Amended) Device A device as claimed in claim 18, wherein it the device is configured to regulate its electrical properties through the composition of said spacer layer (133).
- 23. (Currently Amended) Device A device as claimed in claim 18, wherein it-the device is employed in TMR applications.

24-41. (Cancelled).